Annexure -A

50 Soccer Turf Technical Specifications

Initials	Detailed Description	
Product Intro and Model	Pile Height - 50 MM	
Roll details	Width : 2m or 4m Length : as per request (Standard 30.5 Meter)	
Product Reference Pic	  	
Site Reference Images	  	
Suitable Area	Outdoor	
Areas of Usage	Football, Soccer, Futsal , Rugby etc..	
Certifications	FIFA Certified	
Benefits	*Excellent rebound and softness performance, ensure the safety of kneels and skin *Good drainage, anticorrosive, anti-moldy, fastness and UV resistance. *Excellent anti-wear performance and can increase use frequency of field. *Perfect ball roll properties. *Economical System. *Easy install and maintain. *Environment friendly. *Natural & Beautiful appearance.	
Time taken for importing product if not in stock	8-10weeks incase product not available in stock	
Color	Green 	
Warranty	03 Years	
Yarn Details	Composition	PE
	Structure	Monofilament
	Dtex	PE12000
	Tape thickness	320µm
	Tape width	1.60mm
Carpet	Pile height	50mm±1mm
	Gauge	5/8inch
	Stitches per 10cm	15±1
	Stitches per m2	9450±100
	Total yarn weight	1305g/sqm ±10%
Backing	Primary backing	PP + polyester fiber Mesh scrim inlay
	Weight	261g/sqm
	Secondary backing	Latex
	Weight	1080g/sqm±10%
	Total carpet weight	2646g/sqm ±100g

ARTIFICIAL TURF SPECIFICATIONS (15 MM)

ANNEXURE - B

	Pile Height - 15 MM	
Roll details	Width : 2m or 4m	
	Standard Length 25 meter or On order as per request	
Areas of Usage	Tennis, Cricket, Hockey, Multisports	
Certifications	ITF Certified	
Color	Emerald Green (Olive, Lime, Red & Blue Color on request only)	
Yarn Details	Composition	PE
	Structure	Fibrillated
	Dtex	PE8800
	Tape thickness	85-110µm ± 10%
	Tape width	9.5-12.5 MM ± 10%
Carpet	Pile height	15mm±1mm
	Gauge	3/16 inch
	Stitches per 10cm	23±10%
	Stitches per m2	48300 ± 10%
	Total yarn weight	1560 G / Sqm ± 10%
Backing	Primary backing	PP + Mesh scrim inlay"
	Weight	190 G / Sqm ± 10%
	Secondary backing	Latex
	Weight	1050 G / Sqm ± 10%
	Total carpet weight	2800 G / Sqm ± 10%







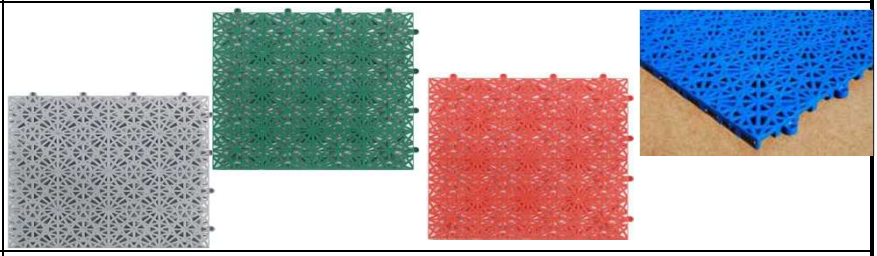


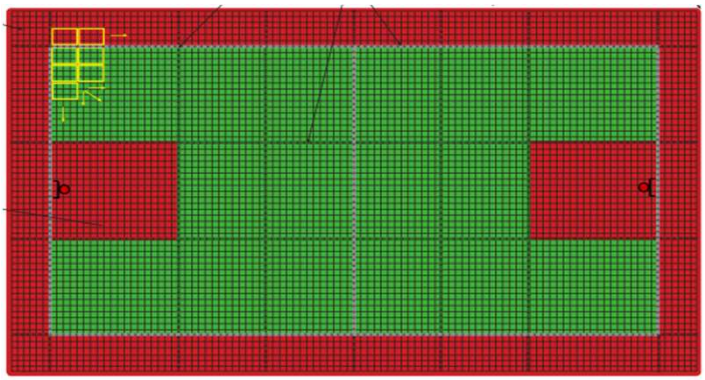
Acrylic Flooring Technical Specifications

Descriptions	
Product Intro	5 Layer **Upto** 2.0 MM Thick ITF Approved Acrylic System
Site Reference Images	
Suitable Area	Outdoor (can be used Indoors)
Areas of Usage (The product can be used for any outdoor sport such as tennis, basketball, volleyball, handball, badminton etc)	Any outdoor court where speed is more critical and where no cushioning is required
Certifications	ITF Certified
Benefits	Durable & Required Minimal Maintenance, All weather suitable /Friendly, UV Ray resistant
Time taken for importing product if not in stock	8 weeks if product has to be imported
Color Options Available in Stock (Most of Time)	
Limited warranty	1 year warranty against manufacturing defects on Asphalt Base such as delamination or drastic decoloration of the product
Maintenance Guidelines	**Weekly, or as required:** The surface should be cleared of all dirt or leaves using a brush, Chewing gum should be removed immediately / **Annually:** The surface may be cleaned with a high pressure power washer
Subfloor	Asphalt preferred/concrete possible but not as good
Thickness	Upto 2 MM
Weight	2.67 kg/m2
Product Brief Details (Layers with Line Marking)	5 Layer System with Acrylic latex to repair Subfloor Minor Cracks, followed by Primer Layer to improve bonding of acrylic paint with subfloor, Acrylic Resurfacer Layer for filling and smoothing subfloor following by Dual Layers of 100 % acrylic base color coat followed by Top Color coat to protect flooring against UV Rays FINAL OVERLINE MARKING WITH ACRYLIC PAINT

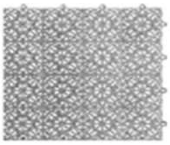
Annexure -D

PP TILES SPORTS FLOORING TECHNICAL SPECIFICATION

DESCRIPTION	Suspended Modular PP Tiles Flooring	
Product Intro.	Multi Purpose PP Tiles	
Product Picture		
Site Reference Images	 	
Application Area	Best for Multi-Purpose Areas, and other High Impact Sports like basketball	
Benefits	*Can withstand all types of climates and environments *For indoors and outdoors. *Easy to install/move. *Requires minimal maintenance *Ergonomic – good for joints and backs *Correct bounce across the whole court *Extremely durable *Excellent drainage capability *Allows the surface beneath to breathe *All-weather court – dries quickly after rain. *Soundproofing properties *Ideal on worn asphalt and cracked concrete	
Standard Color Options		
Other Color Options		
Warranty for Manufacturing Defects	10 Years (Pls refer Warranty Card as well)	
Importing time in case not in stock	8 to 12 Weeks	8 to 12 Weeks

Referece Design for a Standard Basketball Court (Size 32m L x 19m W)	

TECHNICAL INFORMATION



MULTISPORT

Material:	PP	ISO2076	Environmentally friendly recyclable UV-stabilized polypropylene with mineral additive.
Size of tile: /Plattans storlek:		EN427	303,3 x 303,3 mm.
Thickness of tile: /Plattans tjocklek:		EN428	14,1 mm.
Wieght: /Vikt:		EN430	1 tile: 0,342 kg. 5 m²: 19,55 kg (Maxi-pack). 4x3 tiles: 4,53 kg (Preassembled sheets).
Point load: /Punktbelastning:		QUALIFIED TEST BY BERGO	500 ton / 1 m² = 5000 kg/dm²
Light fastness: /Ljusbeständighet:		EN 14836 (>3) ISO 105-B02 (1-8) ISO 105-A02	4-5 7-8 4/5
Weather Fastness /UV-Floorida test (1-5):		ASTM D1435 ASTM G154 Cycle A	4/5
Slip resistance: /Halkmotstånd:		EN13036-4 SS EN-13893 DIN 51130	108 PTV >0,4 R10
Impact resistance: /Slagtålighet:		ISO179/1eA ASTM D746	+23 °C = 20 kJ/m² / -20 °C = 5 kJ/m² C15 kJ/m²
Fire category /Brandklassning:		EN ISO 11925-2	E_n
CE certification:	CE	EN 14041	0402-CPD-P605080A
Shock absorbtion: /Stötupptagning	EN 14877	EN 14808	6 %
Vertical deformation: /Svikt	EN 14877	EN 14809	0,3 mm
Vertical ball behaviour: /Bollstuds	EN 14877	EN 12235	98 %
Resistance to wear: /Nötningsmotstånd	EN 14877	EN ISO 5470-1	0,1 g / 1000 cycles
Water infiltration rate (broken-through pattern): /Vattengenomsläpplighet	EN 14877	EN 12616	Requirement very well achieved. Uppfyller kraven med god marginal.

		Results	FIBA* requirements	Pass/Fail
Friction:	EN 13036-4	97	80-110	Pass
Shock absorbtion:	EN 14808	29 %	≥ 25	Pass
Vertical deformation:	EN 14809	2.3 mm	≤ 3,5	Pass
Vertical ball rebound:	EN 12235	97 %	≥ 90	Pass

Meets the standards of FIBA

* FIBA requirements for levels 2 and 3: Mobile synthetic flooring

Packaging:	Quantity / packaging unit:	Quantity / pallet:	Size of pallet:
Maxi-pack carton	5 m² = 55 tiles	1 pallet = 36 cartons =180 m2	1,30 x 0,98 x 2,60 m =3,3 m3, 754 kg gross weight
Preassembled sections	1 section = 4 x 3 tiles = 1,1 m²	1 pallet = 75 sections = 81,8 m²	1,26 x 0,96 x 1,21 m = 1,46 m3, 339 kg gross weight
Bulk		1 pallet = 84 m²	1,30 x 0,98 x 1,22 m = 1,55 m³, 330 kg gross weight

EXPLANATION OF EXPANSION IN VARIOUS TEMPERATURES/FÖRKLARING TILL UTVIDGNING I OLIKA TEMPERATURER

Expansion: 0,015 % per 10 °C

Formula for the size of the expansion: (0,0015 x length of the floor) x (number of increased degrees /10) / Formel för själva expansionens (utvidgningens) storlek: (0,0015 x längden av golvet) x (temperaturökning (i grader)/10)
Formula for the length of the floor after the expansion: Earlier length + Length of the expansion

Example / Exempel	Length of floor / Längd på golvet	Calculation / Uträkning	Expansion	Length of floor after expansion / Längd på golvet efter expansion
0°C–10°C	10 m	0,00075 x 10 m x (10°C/10) = 0,0075 m (=0,75 cm)	0,75 cm	10,0075 m
0°C–30°C	10 m	0,00075 x 10 m x (30°C/10) = 0,0225 m (=2,25 cm)	2,25 cm	10,0225 m
20°C–40°C	20 m	0,00075 x 20 m x (20°C/10)= 0,03 m x (= 3 cm)	3,0 cm	20,03 m

10 YEAR GUARANTEE

ISO 9001 SFK

05 PP

CE 07

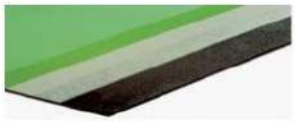
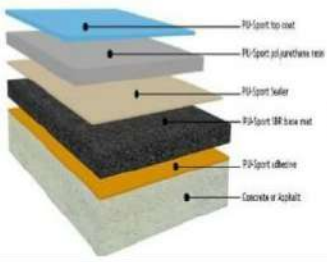
DE GRÖNA PUNKT

Meets the standards of FIBA

SYSTEM 1

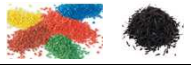
PU FLOORING TECHNICAL SPECIFICATIONS

ANNEXURE- E

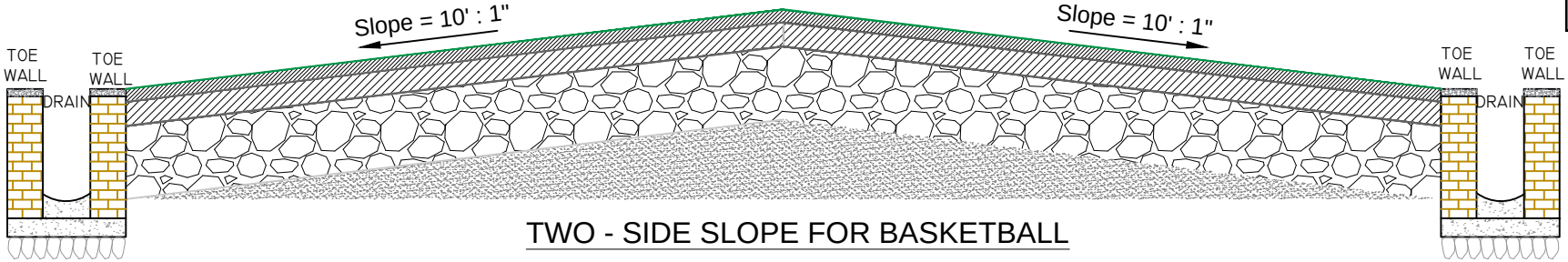
Product Intro	[redacted]PU-Sport System is a seamless point-elastic indoor sports floor. The system consists of a prefabricated SBR rubber base mat which comes in different thickness ranging 4mm to 9mm with a 2 mm self levelling elastic polyurethane toplayer covered by a wear resistant mat top coat finish. This complete system is DIN-tested.
Product Reference Images	  
Suitable Area	Indoor & Outdoor both (Outdoor Top Layer has UV Protected Top Coat Layer)
Areas of Usage (Indoor sports flooring)	All Indoor- and Multipurpose Hall Systems including Sports hall, Gym, Aerobics, Basketball, Volleyball, Badminton, Mutipurpose usage. Ebaco PU-Sport system is multi-functional and therefore also very suitable for exhibitions, festivals, meetings, etc.
Certifications	*System fulfills all relevant norms and technical standards and has IHF, FIBA and BWF Ceritification * System manufactured under ISO 9001 for quality management , ISO 14001 for environmental care and ISO 26000 for corporate sustainability *System has EN-13501 & EN-14904 Certifications which leads to cost-efficient & flexible eco version. *System has DIN 18032-2 & Clf-s1 certifications which leads to low-emission & flame-retardant pure & protect+ version.
Benefits	 *Highly-Flexible *Spike-Resistent *Flame-retardent and comply with International Standards *High Shock Absorption & Optimal Ball Bounce *Max Slip Resistance & Excellent wear Resistance *Eazy Maintenance *Resiliency for comfort and injury prevention *Seamless, non-porous and smooth surface for easy maintenance, repair and resurface procedures *Sustainability through high content of recycled and renewable raw materials in combination with lasting performance through outstanding mechanical strength and wear resistance *Good mechanical strength and outstanding wear resistance for minimum life cycle cost and maximum usability (return on investment) *Wide colour selection with outstanding colour fastness *No glare for clear visibility of the durable line marking *Excellent contact noise reduction (acoustic isolation) *Outstanding thermal insulation
Import time taken	10 Week to 12 Week
Multi Color Options Available from RAL Standard Color Range (*Other color options can also be made available)	
Limited warranty	3 years warranty against manufacturing defects (*~~Pls refer Ebaco PU Warranty Manual for More Details~~)
Layers & Product Construction	  
Subfloor	Concrete or Asphalt

Specifications	
Shock Absorption DIN (18032)	Ranging **12% to 28%** According to Thickness of PU System
Standard Deformation	Ranging **0.6** mm to **1.4** mm According to Thickness of PU System
Rolling Load	**> 1500**
Impact Resistance at 10 °C (EN 1517)	**800 Gr**
Residual Impression	Ranging **0.15 mm to 0.35** mm According to Thickness of PU System
Ball Rebound Properties	0.98
Sliding Properties (EN 13036-4)	107
Release of Dangerous Substances	Class E1
Resistance to wear	340 Mg
[redacted]	[redacted]

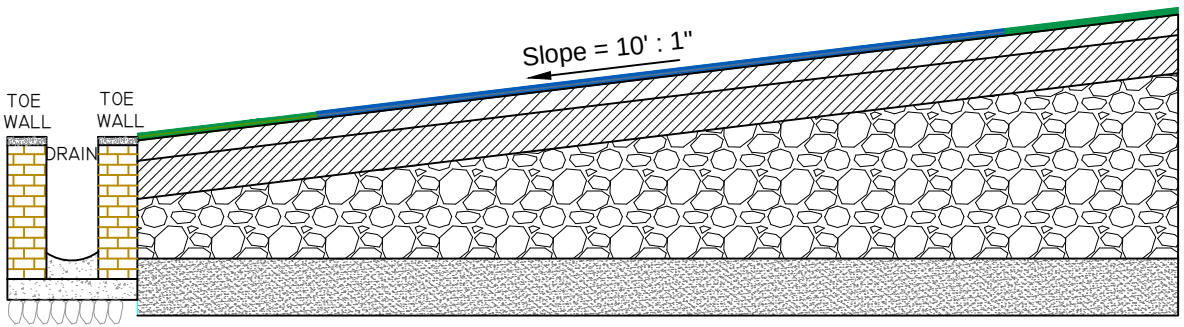
Insitu Flooring (100% EPDM Top Layer) Technical Specifications

Product Intro	15 MM Thick SBR with EPDM Insitu Rubber Flooring	25 MM Thick SBR with EPDM Insitu Rubber Flooring	36 MM Thick SBR with EPDM Insitu Rubber Flooring
Reference Site Images with 100% EPDM Upper Layer 			
Suitable Area	Outdoor (can be used Indoors)	Outdoor (can be used Indoors)	Outdoor (can be used Indoors)
Areas of Usage	Specially for Kids Play areas (also product can be used for Jogging Track & any outdoor sport such as tennis, basketball, volleyball, handball, badminton etc)	Specially for Kids Play areas (also product can be used for Jogging Track & any outdoor sport such as tennis, basketball, volleyball, handball, badminton etc)	Specially for Kids Play areas (also product can be used for Jogging Track & any outdoor sport such as tennis, basketball, volleyball, handball, badminton etc)
Benefits	*100% Hygienic and Safer for Children *An unmatched range of creative design possibilities *Long Life with Minimal Wastage *Resistance to abrasion, slipping, indentation & ignition *Virtually Maintenance Free *Multi Colored Graphic and Design Options *No Hidden Hazards *No Joints for Vandals to crack *[redacted] EPDM flooring Surface depths varies in thickness. 25-30 mm thickness is the 'Industry Standard' incorporating a 2 layer system with a 19mm SBR base layer and 6mm EPDM wearing top. All depths can be accommodated. "If one keeps thickness of floor 25 MM, It means, if a child falls from height of approx 1 Meter it won't hurt himself." The graph below shows surfacing depths to suit fall heights 		
Multi Color Options Available (All Colors can be made available against Project Order's)	 		
Color Options Available in Stock (Most of Time)			
Limited warranty	1 year warranty against manufacturing defects- such as delamination or drastic decoloration of the product	1 year warranty against manufacturing defects such as delamination or drastic decoloration of the product	1 year warranty against manufacturing defects such as delamination or drastic decoloration of the product
Maintenance Guidelines	**Weekly, or as required:** The surface should be cleared of all dirt or leaves using a brush, Chewing gum should be removed immediately, The surface may be cleaned using garden hose with spray nozzle, pressure washer *[redacted]	**Weekly, or as required:** The surface should be cleared of all dirt or leaves using a brush, Chewing gum should be removed immediately, The surface may be cleaned using garden hose with spray nozzle, pressure washer *[redacted]	**Weekly, or as required:** The surface should be cleared of all dirt or leaves using a brush, Chewing gum should be removed immediately, The surface may be cleaned using garden hose with spray nozzle, pressure washer *[redacted]
Subfloor	Asphalt preferred/concrete possible but not as good	Asphalt preferred/concrete possible but not as good	Asphalt preferred/concrete possible but not as good
Thickness	Total Thickness is 15 MM (First Layer of 9 MM Thick Black SBR & Second Layer of 6 MM Thick Color EPDM)	Total Thickness is 25 MM (First Layer of 19 MM Thick Black SBR & Second Layer of 6 MM Thick Color EPDM)	Total Thickness is 36 MM (First Layer of 30 MM Thick Black SBR & Second Layer of 6 MM Thick Color EPDM)
Product Components Tech Specs & USP	*SBR **Buffing** (Styrene-Butadiene Rubber), it comes in Black Color by Default, its environment friendly, having excellent weather properties & low in cost *PU (Poly Urethane) Binder, it's a glue which gives bonding to Rubber Granules, normally comes in Transparent Color, USP of it includes low UV degradation, minimal color change of EDPM Granules *EPDM (Ethylene Propylene Diene Monomer), Multi Color Options are available in this, its a Synthetic Rubber which is water resistance, durable, UV stable, high & consistent quality product 		

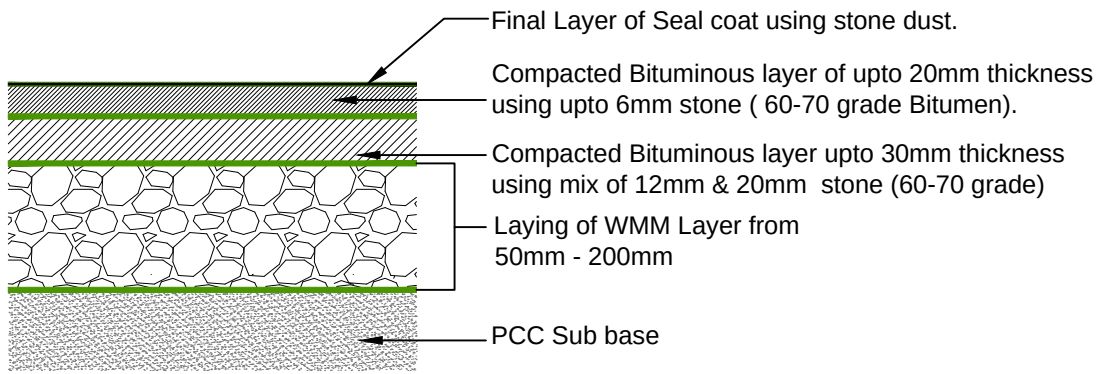
ANNEXURE - G



TWO - SIDE SLOPE FOR BASKETBALL



ONE - SIDE SLOPE FOR TENNIS



ASPHALT SUB- FLOOR DETAIL FOR TENNIS AND BASKETBALL

one side or two side slope may vary as per site condition.